

Title (en)

Wastewater purification process.

Title (de)

Verfahren für die Abwasserreinigung.

Title (fr)

Procédé pour la purification d'eau usée.

Publication

EP 0218066 A1 19870415 (EN)

Application

EP 86111665 A 19860822

Priority

NL 8502677 A 19850930

Abstract (en)

Wastewater from various sources may be purified by contacting it with sludge derived from an oxidative biological water purification process and subsequently subjected to a complete anaerobic fermentation step followed by a dying-off step. A variety of contaminants such as metals, colorants, detergents, phenols and the like may be adsorbed by the sludge in this way and removed from the wastewater by separating the sludge and wastewater after contact. The process may serve as an introductory step to a normal oxidative biological water purification process. In a special embodiment, cationic contaminants are removed from the wastewater, with the aid of a sludge of the aforesaid type, whilst anionic contaminants are removed with the aid of a sludge of the same type that has been pretreated with a cationic detergent.

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C02F 1/28

IPC 8 full level

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CPC (source: EP US)

C02F 9/00 (2013.01 - EP US); **C02F 1/286** (2013.01 - EP US); **C02F 3/02** (2013.01 - EP US); **C02F 2101/20** (2013.01 - EP US); **C02F 2101/306** (2013.01 - EP US); **C02F 2101/308** (2013.01 - EP US); **C02F 2101/345** (2013.01 - EP US); **C02F 2103/28** (2013.01 - EP US); **C02F 2103/30** (2013.01 - EP US); **C02F 2103/343** (2013.01 - EP US); **Y02W 10/10** (2015.05 - EP US); **Y10S 210/912** (2013.01 - EP US); **Y10S 210/917** (2013.01 - EP US)

Citation (search report)

- [YD] EP 0110240 A1 19840613 - LINDE AG [DE]
- [Y] DE 666060 C 19381010 - HEINZ DICKMANN
- [A] CH 602501 A5 19780731 - CIBA GEIGY AG
- [A] US 3979285 A 19760907 - WEGMULLER HANS, et al

Cited by

FR2691453A1; EP0406733A3; CN104193118A

Designated contracting state (EPC)

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EP 0218066 A1 19870415; **EP 0218066 B1 19900328**; **EP 0218066 B2 19950517**; AT E51388 T1 19900415; DE 3669870 D1 19900503; NL 8502677 A 19870416; US 4710301 A 19871201

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